

09/847586

CORPORATE SOURCE:

Natl. Inst. Neurol. Commun. Disorders Stroke,
Natl. Inst. Health, Bethesda, MD, 20892, USA

SOURCE:

EMBO Journal (1988), 7(7), 1947-55

CODEN: EMJODG; ISSN: 0261-4189

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Genomic clones for the largest human neurofilament protein (NF-H) were isolated, the intron/exon boundaries mapped, and the entire protein-coding regions (exons) sequenced. The predicted protein contains a central region that obeys the structural criteria identified for α -helical 'rod' domains typically present in all intermediate filament (IF) protein components; it is .apprx.310 amino acids long, shares amino acid sequence homol. with other IF protein rod domains, and displays the characteristic heptad repeats of apolar amino acids which facilitate coiled-coil interaction. Nevertheless, anomalies are noted in the structure of the F-H rod which could explain observations of its poor homopolymeric assembly in vitro. The protein segment on the carboxy-terminal side of the human NF-H rod is uniquely long (>600 amino acids) compared to other IF proteins and is highly charged (>24% Glu, >25% Lys), rich in proline (>12%), and impoverished in cysteine, methionine, and aromatic amino acids. Its most remarkable feature is repetitive sequence that covers more than half its length and includes the sequence motif, Lys-Ser-Pro (KSP), >40 times. Together with the identification of the serine in KSP as the main target for NF-directed protein kinases *in vivo*, this repetitive character explains the massive phosphorylation of the NF-H subunit that can occur in axons. The human NF-H gene has three introns, two of which interrupt the protein-coding sequence at identical points to introns in the genes for the two smaller NF proteins, NF-M and NF-L. Both these introns differ from any of the several introns that have a common organization in all other (non-neural) IF genes. However, a clear evolutionary relationship between neural and non-neural IFs is now revealed by the observation that the third intron in the NF-H gene matches the position of one of the conserved introns in the non-neural IF gene pattern. Hence, divergence of the two IF lineages (neural from non-neural) is more likely to have involved ancestral IF gene duplication rather than RNA-mediated transposition.

IT 119213-37-5, Phosphoprotein NF-H (human clone HW10/HW12 subunit protein moiety reduced)

RL: PRP (Properties)

(amino acid sequence of)

E27 THROUGH E53 ASSIGNED

FILE 'REGISTRY' ENTERED AT 11:49:29 ON 26 MAY 2004

L3

27 SEA FILE=REGISTRY ABB=ON PLU=ON (391971-89-4/BI OR
119213-37-5/BI OR 147388-28-1/BI OR 222963-40-8/BI OR
329019-83-2/BI OR 329020-41-9/BI OR 329020-42-0/BI OR
329020-43-1/BI OR 329020-44-2/BI OR 329020-45-3/BI OR
329020-46-4/BI OR 329020-47-5/BI OR 329020-48-6/BI OR
355029-63-9/BI OR 355043-60-6/BI OR 374653-90-4/BI OR
400113-81-7/BI OR 400154-00-9/BI OR 409392-10-5/BI OR
419604-01-6/BI OR 420909-41-7/BI OR 437023-11-5/BI OR
528612-99-9/BI OR 538425-66-0/BI OR 538458-06-9/BI OR

Searcher : Shears 571-272-2528

09/847586

611252-43-8/BI OR 612112-12-6/BI)

L4 27 L1 AND L3

L4 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 612112-12-6 REGISTRY
CN Protein (human heart clone GenBank gi:10835089 mitochondria-associated) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1115: PN: WO03087768 SEQID: 1115 claimed protein
CI MAN
SQL 1026

SEQ 1 MMSFGGADAL LGAPFAPLHG GGSLHYALAR KGGAGGTRSA AGSSSGFHSHW
51 TRTSVSSVSA SPSRFRGAGA ASSTDSDLTL SNGPEGCMVA VATSRSEKEQ
101 LQALNDRFAG YIDKVRQLEA HNRSLEGEAA ALRQQQAGRS AMGELYEREV
151 REMRGAVLRL GAARGQLRLE QEHLLEDIAH VRQRLLDDEAR QREEAEAAAAR
201 ALARFAQEAE AARVDLQKKA QALQEECGYL RRHHQEEVGE LLGQIQGSGA
251 AQAQMQAETR DALKCDVTSA LREIRAQLEG HAVQSTLQSE EWFRVRLDRL
301 SEA AKVNTDA MRSAQEEITE YRRQLQARTT ELEALKSTKD SLERQRSELE
351 DRHQADIASY QEAQQLDAE LRNTKWE MA QLREYQDLLN VKM ALDIEIA
401 AYRKLLGEEE CRIGFGPIPF SLPEGLPKIP SVSTHIKVKS EEKIKVVEKS
451 EKETVIVEEQ TEETQVTEEV TEEEKEAKE EEGKEEEGGE EEEAEGGEEE
501 TKSPPAEEAA SPEKEAKSPV KEEAKSPA EA KSPEKEEAKS PAEVKSPEKA
551 KSPAKEEAKS PPEAKSPEKE EAKSPA EVKSPEAKS PEAKSPA EAKSPA EAKS
601 PEAKSPVKE EAKSPA EAKS PVKEEAKSPA EVKSPEAKS PTKEEAKSPE
651 KAKSPEAKS PEKEEAKSPE KAKSPVKA EA KSPEAKSPEKA KAEAKSPEKA
=

701 KSPVKEEAKS PEAKSPVKE EAKSPEAKS PVKEEAKTPE KAKSPVKEEA
===== ===== = ===== = =====
751 KSPEAKSPE KAKTLDVKSP EAKTPAKEEA RSPADKFPEK AKSPVKEEVK
=====

801 SPEAKSPLK EDAKAPEKEI PKKEEVKSPV KEEEPKQEVK VKEPPKKAAEE
851 EKAPATPKTE EKDKSKKEEA PKKEAPKPKV EKKEAPEVAK PKESKVEAKK
901 EEAEDKKKVP TPEKEAPAKV EVKEDAKPKE KTEVAKKEPD DAKAKEPSKP
951 AEKKEAAPEK KDTKEEKAKK PEEKPKTEAK AKEDDKTLSK EPSKPKA EKA
1001 EKSSSTDQKD SKPPEKATED KAAKGK

HITS AT: 700-731, 742-759

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 139:333132

L4 ANSWER 2 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 611252-43-8 REGISTRY
CN Protein (human clone US20030194704-SEQID-32114 exon-derived fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 114: PN: US20030194704 SEQID: 32114 claimed protein
CI MAN
SQL 617

SEQ 1 KLLEGEECRI GFGPIPFSLP EGLPKIPS VS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EEEKEAKEEEG KEEEGGEEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPA EAKSP EKEEAKSPA EAKSP VKSPEAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPA EAK SPAEAKSPEK

09/847586

201 AKSPVKEEAK SPAEKSPVK EEAKSPEVK SPEKAKSPTK EEAKSPEKAK
251 SPEKEEAKSP EAKSPVKA EAKSPEAKSP VKAEEKSPEK AKSPVKEEAK

=====

301 SPEKAKSPVK EEAKSPEKAK SPVKEEAKTP EAKSPVKEE AKSPEAKSP

=====

351 EKAKTLDVKS PEAKTPAKEE ARSPADKFPE KAKSPVKEEV KSPEAKSPL

401 KADAKAPEKE IPKKEEVKSP VKEEEKPQEV KVKEPPKAE EEKAPATPKT

451 EEEKKDSKKEE APKKEAPKPK VEEKKEPAVE KPESKVEAK KEEAEDKKKV

501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE

551 KKDTKEEKAK KPEEKPKTEA KAKEDDKTLS KEPSPKPKAEK AEKSSSTDQK

601 DSKPPEKATE DKAAGKG

HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 139:303033

L4 ANSWER 3 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 538458-06-9 REGISTRY

CN Pain-regulated protein (human clone WO03016475-SEQID-9347) (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN 2255: PN: WO03016475 SEQID: 9347 claimed protein

CI MAN

SQL 1020

SEQ 1 MMSFGGADAL LGAPFAPLHG GGSLHYALAR KGGAGGTRSA AGSSSGFHWS

51 TRTSVSSVSA SPSRFRGAGA ASSTDSDLTL SNGPEGCMVA VATSRSEKEQ

101 LQALNDRFAG YIDKVRQLEA HNRSLGEAA ALRQQQAGRS AMGELYEREV

151 REMRGAVLRL GAARGQLRLE QEHLLEDIAH VRQRLLDDEAR QREEAEAAR

201 ALARFAQEAE AARVDLQKKA QALQEECGYL RRHHQEEVGGE LLGQIQGSGA

251 AQAQMQAETR DALKCDVTSA LREIRALAQLEG HAVQSTLQSE EWFRVRLDRL

301 SEAAKVNTDA MRSAQEEITE YRRQLQARTT ELEALKSTKD SLERQRSELE

351 DRHQADIASY QEAIQQLDAE LRNTKWEMAA QLREYQDLLN VKMALDIEIA

401 AYRKLLGEEE CRIGFGPIFF SLPEGLPKIP SVSTHIKVKS EEKIKVVEKS

451 EKETVIVEEQ TEETQVTEEV TEEEKEAKE EEGKEEEGGE EEEAEGGEEE

501 TKSPPAEEAA SPEKEAKSPV KEEAKSPA EA KSPEKEEAKS PAEVKSPEKA

551 KSPAKEEAKS PPEAKSPEKE EAKSPAEVKS PEKA KSPAKE EAKSPAEEAKS

601 PEKA KSPVKE EAKSPAEEAKS PVKEEAKSPA EVKSPEKA KS PKTKEEAKSPE

651 KAKSPEKEA KSPEAKSPV KAEAKSPEKA KSPVKAEEAKS PEKA KSPVKE

=====

701 EAKSPEKA KS PVKEEAKSPE KAKSPVKEEA KTPEKA KSPV KEEAKSPEKA

=====

751 KSPEAKTLD VKSPEAKTPA KEEARSPADK FPEKA KSPV EEVKSPEAK

====

801 SPLKADAKAP EKEIPKKEEV KSPVKEEKP QEVKVKEPPK KAEEEKAPAT

851 PKTEEKDSK KEEAPKKEAP KPKVEEKKEP AVEKPKESKV EAKKEEAEDK

901 KKVPTEPEKA PAKVEVKEDA KPKEKTEVAK KEPDDAKAKE PSKPAEKKEA

951 APEKKDTKEE KAKKPEEKPK TEAKAKEDDK TLSKEPSKPK AEKA EKSSST

1001 DQKDSKPKPEK ATEDKAAGKG

HITS AT: 694-725, 736-753

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 139:18399

Searcher :

Shears

571-272-2528

09/847586

L4 ANSWER 4 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 538425-66-0 REGISTRY
CN Pain-regulated protein (human clone WO03016475-SEQID-4798) (9CI)
(CA INDEX NAME)
OTHER NAMES:
CN 2214: PN: WO03016475 SEQID: 4798 claimed protein
CI MAN
SQL 1020

SEQ 1 MMSFGGADAL LGAPFAPLHG GGSLHYALAR KGGAGGTRSA AGSSSGFHWS
51 TRTSVSSVSA SPSRFRGAGA ASSTDSDLTL SNGPEGCMVA VATSRSEKEQ
101 LQALNDRFAG YIDKVRQLEA HNRSLEGEAA ALRQQQAGRS AMGELYEREV
151 REMRGAVLRL GAARGQLRLE QEHLLEDIAH VRQRLLDEAR QREEAEAAAR
201 ALARFAQEAE AARVDLQKKA QALQEECGYL RRHHQEEVGE LLGQIQGSGA
251 AQAQM QAETR DALKCDVTSA LREIRAOLEG HAVOSTLQSE EWFRVRLDRL
301 SEA AKVNTDA MRS AQEEITE YRRQLQARTT ELEALKSTKD SLERQRSELE
351 DRHQADIASY QEA IQQLDAE LRNTKWEMAA QLREYQDLLN VKM ALDIEIA
401 AYRK LLEGE CRIGFGPPIF SLPEGLPKIP SVSTHIKVKS EEKIKVVEKS
451 EKETVIVEEQ TEETQVTEEV TEEEKEAKE EEGKEEEGGE EEEAEGGEEE
501 TKSPPAEEAA SPEAKSPV KEEAKSPAEA KSPEKEEAKS PAEVKSPEKA
551 KSPAKKEEAKS PPEAKSPEKE EAKSPAEVKS PEAKSPAKE EAKSPAEAKS
601 PEAKSPVKE EAKSPAEAKS PVKEEAKSPA EVKSPEKAKS PTKEEAKSPE
651 KAKSPEKEEA KSPEAKSPV KAEAKSPEKA KSPVKA EAKS PEAKSPVKE
=====
701 EAKSPEAKS PVKEEAKSPE KAKSPVKEEA KTPEAKSPV KEEAKSPEKA
=====
751 KSPEAKTLD VKSPEAKTPA KEEARSPADK FPEAKSPVK EEVKSPEAK
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801 SPLKADAKAP EKEIPKKEEV KSPVKEEEKP QEVKVKEPPK KAEEEKAPAT
851 PKTEEKKDSK KEEAPKKEAP KPKVEEKKEP AVEKPESKV EAKKEEAEDK
901 KK VPTPEKEA PAKVEVKEDA KPKEKTEVAK KEPDDAKAKE PSKPAEKKEA
951 APEKKDTKEE KAKKPEEKPK TEAKAKEDDK TLSKEPSKPK AEKA EKSSST
1001 DQKDSKPPEK ATEDKA AKGK
HITS AT: 694-725, 736-753

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 139:18398

L4 ANSWER 5 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 528612-99-9 REGISTRY
CN Protein (human gene CG4399 sequence homolog) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 130: PN: WO03040301 PAGE: 197-198 claimed protein
CN Putative neurofilament protein (human)
CI MAN
SQL 1026

SEQ 1 MMSFGGADAL LGAPFAPLHG GGSLHYALAR KGGAGGTRSA AGSSSGFHWS
51 TRTSVSSVSA SPSRFRGAGA ASSTDSDLTL SNGPEGCMVA VATSRSEKEQ
101 LQALNDRFAG YIDKVRQLEA HNRSLEGEAA ALRQQQAGRS AMGELYEREV
151 REMRGAVLRL GAARGQLRLE QEHLLEDIAH VRQRLLDEAR QREEAEAAAR
201 ALARFAQEAE AARVDLQKKA QALQEECGYL RRHHQEEVGE LLGQIQGSGA
251 AQAQM QAETR DALKCDVTSA LREIRAOLEG HAVOSTLQSE EWFRVRLDRL
301 SEA AKVNTDA MRS AQEEITE YRRQLQARTT ELEALKSTKD SLERQRSELE
351 DRHQADIASY QEA IQQLDAE IRNTKWEMAA QLREYQDLLN VKM ALDIEIA

09/847586

401 AYRKLLLEGEE CRIGFGPIPF SLPEGLPKIP SVSTHIKVKS EEKIKVVEKS
451 EKETVIVEEQ TEETQVTEEV TEEEKEAKE EEGKEEEGGE EEEAEGGEEE
501 TKSPAAEAA SPEKEAKSPV KEEAKSPEA KSPEKEEAKS PAEVKSPEKA
551 KSPAKEEAKS PPEAKSPEKE EAKSPAEVKS PEAKSPAKE EAKSPAEEAKS
601 PEAKSPVKE EAKSPAEEAKS PVKEEAKSPA EVKSPEAKS PTKEEAKSPE
651 KAKSPEAKS PEKEEAKSPE KAKSPVKAEA KSPEAKSPV KAEAKSPEKA
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701 KSPVKEEAKS PEAKSPVKE EAKSPEAKS PVKEEAKTPE KAKSPVKEEA
===== ===== ===== = =====
751 KSPEAKSPE KAKTLDVKSP EAKTPAEEA RSPADKFPEK AKSPVKEEVK
=====

801 SPEKAKSPLK EDAKAPEKEI PKKEEVKSPV KEEEKPQEVK VKEPPKKAAEE
851 EKAPATPKTE EKDKSKKEEA PKKEAPKPKV EEKKEPAVEK PKESKVEAKK
901 EEAEDKKVVP TPEKEAPAKV EVKEDAKPK KTEVAKKEPD DAKAKEPSKP
951 AEKKEAAPEK KDTKEEKAKK PEEKPKTEAK AKEDDKTLSK EPSKPKAeka
1001 EKSSSTDQKD SKPPEKATED KAAKGK

HITS AT: 700-731, 742-759

REFERENCE 1: 138:397302

L4 ANSWER 6 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 437023-11-5 REGISTRY
CN Protein (human clone US20020048763-SEQID-36182 exon-encoded
fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1177: PN: US20020048763 SEQID: 36182 claimed protein

CI MAN

SQL 617

SEQ 1 KLLEGEECRI GFGPIPFSLP EGLPKIPSVS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EKEAKEEEG KEEEGGEEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPAECAKSP EKEEAKSPEA VKSPEAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPAEEAK SPAEAKSPEK
201 AKSPVKEEAK SPAEAKSPVK EEAKSPEEVK SPEAKSPTK EEAKSPEAK
251 SPEKEEAKSP EKAKSPVKAE AKSPEAKSP VKAEAKSPEK AKSPVKEEAK
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301 SPEAKSPVK EEAKSPEAK SPVKEEAKTP EKAKSPVKEE AKSPEAKSP
===== ===== == ===== =====
351 EKAKTLDVKS PEAKTPAEE ARSPADKFPE KAKSPVKEEV KSPEAKSPL
401 KADAKAPEKE IPKKEEVKSP VKEEKPQEVK VKEPPKKAE EEKAPATPKT
451 EKKDKSKKEA APKKEAPKPK VEEKKEPAVE KPKEVKV KEEAEDKKV
501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE
551 KKDTKEEKAK KPEEKPKTEAK KAKEDDKTLS KEPSPKPKAek AEKSSSTDQK
601 DSKPPEKATE DKAAGK

HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 137:28982

L4 ANSWER 7 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 420909-41-7 REGISTRY
CN Protein (human clone WO01057273-SEQID-28953 exon-encoded fragment)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2760: PN: WO01057273 SEQID: 28953 claimed protein

09/847586

CI MAN
SQL 617

SEQ 1 KLLGEECRI GFGPIPFSVP EGLPKIPSVS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EEEKEAKEEEG KEEEGGEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPAEEKSP EKEEAKSPA VKSPEAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPAEEK SPAEAKSPEK
201 AKSPVKEEAK SPAEAKSPV EEAKSPEAK SPEAKSPTK EEAKSPEAK
251 SPEKEEAKSP EKAkSPVKA EAKSPEAKSP VKAEEAKSPEK AKSPVKEEAK
=====
301 SPEAKSPV EEAKSPEAK SPVKEEAKTP EAKSPVKEE AKSPEAKSP
===== ===== ===== ===== =====
351 EKAKTLDVKS PEAKTPAKEE ARSPADKFPE KAKSPVKEEV KSPEAKSPL
401 KADAKAPEKE IPKKEEVKSP VKEEKPQEV KVKEPPKAE EEKAPATPKT
451 EEKKDSKKEE APKKEAPKPK VEEKKEPAVE KPESKVEAK KEEAEDKKKV
501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE
551 KKDTKEEKAK KPEEKPKTEA KAKEDDKTLS KEPSPKKA EAKSSSTDQK
601 DSKPPEKATE DKAAGKG

HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 136:351355

L4 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 419604-01-6 REGISTRY
CN Protein (human cervix cell clone WO0157278-SEQID-21284 exon-encoded
fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1884: PN: WO0157278 SEQID: 21284 claimed protein
CI MAN
SQL 617

SEQ 1 KLLGEECRI GFGPIPFSVP EGLPKIPSVS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EEEKEAKEEEG KEEEGGEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPAEEKSP EKEEAKSPA VKSPEAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPAEEK SPAEAKSPEK
201 AKSPVKEEAK SPAEAKSPV EEAKSPEAK SPEAKSPTK EEAKSPEAK
251 SPEKEEAKSP EKAkSPVKA EAKSPEAKSP VKAEEAKSPEK AKSPVKEEAK
=====
301 SPEAKSPV EEAKSPEAK SPVKEEAKTP EAKSPVKEE AKSPEAKSP
===== ===== ===== ===== =====
351 EKAKTLDVKS PEAKTPAKEE ARSPADKFPE KAKSPVKEEV KSPEAKSPL
401 KADAKAPEKE IPKKEEVKSP VKEEKPQEV KVKEPPKAE EEKAPATPKT
451 EEKKDSKKEE APKKEAPKPK VEEKKEPAVE KPESKVEAK KEEAEDKKKV
501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE
551 KKDTKEEKAK KPEEKPKTEA KAKEDDKTLS KEPSPKKA EAKSSSTDQK
601 DSKPPEKATE DKAAGKG

HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 136:351347

L4 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 409392-10-5 REGISTRY

Searcher : Shears 571-272-2528

09/847586

CN Protein (human brain clone WO0157275-SEQID-28374 exon-encoded fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2394: PN: WO0157275 SEQID: 28374 claimed protein

CI MAN

SQL 617

SEQ 1 KLLEGEECRI GFGPIPFSLP EGLPKIPSVS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EEEKEAKEEEKG KEEEGGEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPAEEKSP EKEEAKSPAE VKSPEAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPAEEK SPAEAKSPEK
201 AKSPVKEEAK SPAEAKSPVK EEAKSPEAK SPEAKSPTK EEAKSPEAK
251 SPEKEEAKSP EKAkSPVKAe AKSPEAKSP VKAeAKSPEK AKSPVKEEAK
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301 SPEAKSPVK EEAKSPEAK SPVKEEAKTP EKAkSPVKEE AKSPEAKSP
===== ===== ===== =====
351 EKAKTLDVKS PEAKTPAKEE ARSPADKFPE KAKSPVKEEV KSPEAKSPL
401 KADAKAPEKE IPKKEEVKSP VKEEEKPQEV KVKEPPKAE EEKAPATPKT
451 EEKKDSKKEE APKKEAPKPK VEEKKEPAVE KPESKVEAK KEEAEDKKKV
501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE
551 KKDTKEEKAK KPEEKPKTEA KAKEDDKTLS KEPSPKPKAE AEKSSSTDQK
601 DSKPPEKATE DKAAGKG

HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 136:305084

L4 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 400154-00-9 REGISTRY

CN Protein (human fetal liver clone WO0157277-SEQID-28080 exon-encoded fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2295: PN: WO0157277 SEQID: 28080 claimed protein

CI MAN

SQL 617

SEQ 1 KLLEGEECRI GFGPIPFSLP EGLPKIPSVS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EEEKEAKEEEKG KEEEGGEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPAEEKSP EKEEAKSPAE VKSPEAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPAEEK SPAEAKSPEK
201 AKSPVKEEAK SPAEAKSPVK EEAKSPEAK SPEAKSPTK EEAKSPEAK
251 SPEKEEAKSP EKAkSPVKAe AKSPEAKSP VKAeAKSPEK AKSPVKEEAK
=====
301 SPEAKSPVK EEAKSPEAK SPVKEEAKTP EKAkSPVKEE AKSPEAKSP
===== ===== ===== =====
351 EKAKTLDVKS PEAKTPAKEE ARSPADKFPE KAKSPVKEEV KSPEAKSPL
401 KADAKAPEKE IPKKEEVKSP VKEEEKPQEV KVKEPPKAE EEKAPATPKT
451 EEKKDSKKEE APKKEAPKPK VEEKKEPAVE KPESKVEAK KEEAEDKKKV
501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE
551 KKDTKEEKAK KPEEKPKTEA KAKEDDKTLS KEPSPKPKAE AEKSSSTDQK
601 DSKPPEKATE DKAAGKG

HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

09/847586

REFERENCE 1: 136:178933

L4 ANSWER 11 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 400113-81-7 REGISTRY
CN Protein (human clone WO0157274-SEQID-22654 exon-encoded fragment)
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2061: PN: WO0157274 SEQID: 22654 claimed protein
CI MAN
SQL 617

SEQ 1 KLLEGEECRI GFGPIPFSLP EGLPKIPSVS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EEEKEAKEEEK KEEEGGEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPAEEKSP EKEEAKSPA VKSPEAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPAEEK SPAEAKSPEK
201 AKSPVKEEAK SPAEKSPVK EEAKSPAEVK SPEAKSPTK EEAKSPEAK
251 SPEKEEAKSP EKAKSPVKA AKSPEAKSP VKAEAKSPEK AKSPVKEEAK
=====
301 SPEAKSPEVK EEAKSPEAK SPVKEEAKTP EKAKSPVKEE AKSPEAKSP
===== ===== =====
351 EKAKTLDVKS PEAKTPAKEE ARSPADKFPE KAKSPVKEEV KSPEAKSPL
401 KADAKAPEKE IPKKEEVKSP VKEEEKPQEV KVKEPPKKAE EEKAPATPKT
451 EEKKDSKKEE APKKEAPKPK VEEKKEPAVE KPESKVEAK KEEAEDKKKV
501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE
551 KKDTKEEKAK KPEEKPKTEA KAKEDDKTLS KEPSPKPKAEK AEKSSSTDQK
601 DSKPPEKATE DKAAGKG
HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 136:195264

L4 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 391971-89-4 REGISTRY
CN Heavy neurofilament subunit (human gene NF-H) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4211: PN: WO03038130 FIGURE: 3 claimed protein
CN GenBank CAA33366
CN GenBank CAA33366 (Translated from: GenBank X15306)
CI MAN
SQL 1020

SEQ 1 MMSFGGADAL LGAPFAPLHG GGSLHYALAR KGGAGGTRSA AGSSSGFHWS
51 TRTSVSSVSA SPSRFRGAGA ASSTDSDLTL SNGPEGCMVA VATSRSEKEQ
101 LQALNDRFAG YIDKVRQLEA HNRSLGEAA ALRQQQAGRS AMGELYEREV
151 REMRGAVLRL GAARGQLRLE QEHLLEDIAH VRQLLDEAR QREEAEAAAR
201 ALARFAQEAE AARVDLQKKA QALQECCYL RRHHQEEVGE LLGQIQGSGA
251 AQAQMQAETR DALKCDVTSA LREIRAQLEG HAVQSTLQSE EWFRVRLDRL
301 SEAALKVNTDA MRSAQEEITE YRRLQARTT ELEALKSTKD SLERQRSELE
351 DRHQADIASY QEAIQQLDAE LRNTKWEMAA QLREYQDLLN VKMALDIEIA
401 AYRKLEGE CRIGFGPIPF SLPEGLPKIP SVSTHIKVKS EEKIKVVEKS
451 EKETVIVEEQ TEETQVTEEV TEEEEEKEAKE EEGKEEEGGE EEEAEGGEEE
501 TKSPPAAEAA SPEKEAKSPV KEEAKSPA EA KSPEKEEAKS PAEVKSPEKA
551 KSPAEEKS PPEAKSPEKE EAKSPAEVKS PEAKSPA EAKSPA EAKSPA
601 PEAKSPVKE EAKSPA EAKSPA EVKSPEAKS PTKEEAKSPE
651 KAKSPEKEEA KSPEAKSPV KAEAKSPEKA KSPVKA EAKSPEKA PEAKSPVKE

09/847586

=====

701 EAKSPEKAKS PVKEEAKSPE KAKSPVKEEA KTPEKAKSPV KEEAKSPEKA
=====

751 KSPEKAKTLD VKSPEAKTPA KEEARSPADK FPEKAKSPVK EEVKSPEKAK
====

801 SPLKADAKAP EKEIPKKEEV KSPVKEEEKP QEVKVKEPPK KAEEEKAPAT
851 PKTEEKKDSK KEEAPKKEAP KPKVEEKKEP AVEKPESKV EAKKEEAEDK
901 KKVPTEKEA PAKVEVKEDA KPKEKTEVAK KEPDDAKAKE PSKPAEKKEA
951 APEKKDTKEE KAKKPEEKPK TEAKAKEDDK TLSKEPSKPK AEKAEKSSST
1001 DQKDSKPK ATEDKAAKGK

HITS AT: 694-725, 736-753

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 138:380506

REFERENCE 2: 136:146104

L4 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 374653-90-4 REGISTRY
CN Protein (human HBL100 cell clone WO0157270-SEQID-12927 exon-encoded fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2869: PN: WO0157270 SEQID: 12927 claimed protein
CI MAN
SQL 617

SEQ 1 KLLEGEECRI GFGPIPFSLP EGLPKIPSVS THIKVKSEEK IKVVEKSEKE
51 TVIVEEQTEE TQVTEEVTEE EEKEAKEEEG KEEEGEEEE AEGGEEETKS
101 PPAEEAASPE KEAKSPVKEE AKSPAEEKSP EKEEAKSPA VKSPEKAKSP
151 AKEEAKSPPE AKSPEKEEAK SPAEVKSPEK AKSPAEEK SPAEAKSPEK
201 AKSPVKEEAK SPAEAKSPVK EEAKSPEAKV SPEAKSPTK EEAKSPEAK
251 SPEKEEAKSP EKAKSPVKA AKSPEAKSP VKAEEAKSPEK AKSPVKEEAK
=====

301 SPEAKSPTK EEAKSPEAK SPVKEEAKTP EKAKSPVKEE AKSPEKAKSP
=====

351 EKAKTLDVKS PEAKTPAKKE ARSPADKFPE KAKSPVKEEV KSPEKAKSPL
401 KADAKAPEKE IPKKEEVKSP VKEEEKPQEV KVKEPPKKAEE EEKAPATPKT
451 EEEKKDSKKEE APKKEAPKPK VEEKKEPAVE KPESKVEAK KEEAEDKKV
501 PTPEKEAPAK VEVKEDAKPK EKTEVAKKEP DDAKAKEPSK PAEKKEAAPE
551 KKDTKEEKAK KPEEKPKTEA KAKEDDKTLS KEPSPKPKAEK AEKSSTDQK
601 DSKPPEKATE DKAAGKG

HITS AT: 291-322, 333-350

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 136:1595

L4 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 355043-60-6 REGISTRY
CN Protein (human clone 787CIP2B_152 contig-encoded fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 338: PN: WO0157190 SEQID: 3455 claimed sequence
CI MAN
SQL 1033

09/847586

SEQ 1 APTAQAMMSF GGADALLGAP FAPLHGGSSL HYALARKGGA GGTRSAAGSS
51 SGFHSTRTS VSSVSASPSR FRGAGAASST DSLLTLSNGP EGCMVAVATS
101 RSEKEQLQAL NDRFAGYIDK VRQLEAHNRS LEGEAAALRQ QQAGRSAMGE
151 LYEREVREMR GAVLRLGAAR GQLRLEQEH LEDIAHVRQR LDDEARQREE
201 AEEAAALAR FAQEAEAAARV DLQKKAQALQ EECGYLRRHH QEEVGELLGQ
251 IQGSGAAQQAQ MQAETRDALK CDVTSALREI RAQLEGHAVQ STLQSEEWFR
301 VRLDRLSEAA KVNTDAMRSA QEEITEYRRQ LQARTTELEA LKSTKDSLTER
351 QRSELEDRHQ ADIASYQEAI QQLDAELRNT KWEMAAQLRE YQDLNNVKMA
401 LDIEIAAYRK LLEGEERICRIG FGPIPFSLPE GLPKIPSST HIKVKSEEKI
451 KVVEKSEKET VIVEEQTEET QVTTEEVTEEE DKEAKEEEKG EEEGGEEEEA
501 EGGEETKSP PAEEAASPEK EAKSPVKEEA KSPAEAKSPE KEEAKSPAEV
551 KSPEKAKSPA KEEAKSPPEA KSPEKDGKQN FQAEVKSPEK AKSPAEEAK
601 SPAEAKSPEK AKSPVKEEAK SPAEAKSPVK EEAKSPAEVK SPEAKSPTK
651 EEAKSPEKAK SPEAKSPEK EEAKSPEKAK SPVKAEAKSP EKAKSPVKA
701 AKSPEKAKSP VKEEAKSPEK AKSPVKEEAK SPEAKSPEK EEAKTPEKAK
===== ===== ===== ===== ===== ===== =====
751 SPVKEEAKSP EKAKSPEKAK TLDVKSPEAK TPAKEEARSP ADKFPEKAKS
===== =====
801 PVKEEVKSPE KAKSPLKEDA KAPEKEIPKK EEVKSPVKEE EKPQEVKVKE
851 PPKKAAEEKA PATPKTEEKK DSKKEEAPKK EAPPKVVEEK KEPAVEKPKE
901 SKVEAKKEA EDKKKVPTPE KEAPAKVEVK EDAKPKEKTE VAKKEPDDAK
951 AKEPSKPAEK KEEAPEKKDT KEEKAKKPEE KPKTEAKAKE DDKTLKSKEPS
1001 KPKAEEAKS SSTDQKDSKP PEKATEDKAA KGK

HITS AT: 707-738, 749-766

REFERENCE 1: 135:176460

L4 ANSWER 15 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 355029-63-9 REGISTRY
CN Protein (human clone 787CIP2B_152) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 795: PN: WO0157190 SEQID: 1487 claimed protein
CI MAN
SQL 1026

SEQ 1 MMSFGGADAL LGAPFAPLHG GGSLHYALAR KGGAGGTRSA AGSSSGFH
51 TRTSVSSVSA SPSRFRGAGA ASSTDSDLTL SNGPEGCMVA VATSRSEKEQ
101 LQALNDRFAG YIDKVRQLEA HNRSLEGEAA ALRQQQAGRS AMGELYEREV
151 REMRGAVLRL GAARGQLRL QEHLLEDIAH VRQLLDDEAR QREEAEAAAR
201 ALARFAQEAE AARVDLQKKA QALQECEGYL RRHHQEEVGE LLGQIQGSGA
251 AQAQMQAETR DALKCDVTS A LREIRAQLEG HAVQSTLQSE EWFRVRLDRL
301 SEA AKVNTDA MRSAQEEITE YRRQLQARTT ELEALKSTKD SLERQRSELE
351 DRHQADIASY QEAQQLDAE LRNTKWE MA QLREYQDLLN VKM ALDIEIA
401 AYRK LLEGE CRIGFGPIPF SLPEGLPKIP SVSTHIVKS EEKIKVVEKS
451 EKETVIVEEQ TEETQVTEEV TEEEEEKEAKE EEEGKEE EEEAEGGEEE
501 TKSPPVVEAA SPEKEAKSPV KEEAKSPA EA KSPEKEEAKS PAEVKSPEKA
551 KSPAKEEAKS PPEAKSPEKE EAKSPAEVKS PEKAKSPA EAKSPA EAKSPEAKS
601 PEKAKSPVKE EAKSPA EAKSPEAKS PVKEEAKSPA EVKSPEAKS PTKEEAKSPE
651 KAKSPEAKS PEKEEAKSPE KAKSPVKA EA KSPEAKSPEK KAEAKSPEKA
=
701 KSPVKEEAKS PEKAKSPVKE EAKSPEAKS PVKEEAKTPE KAKSPVKEEA
===== ===== ===== = =====
751 KSPEAKSPE KAKTLDVKSP EAKTPAKEEA RSPADKFPEK AKSPVKEEVK
=====
801 SPEAKSPLK EDAKAPEKEI PKKEEVKSPV KEEEKPKQEVK VKEPPKKAEE

Searcher : Shears 571-272-2528

09/847586

851 EKAPATPKTE EKKDSKKEEA PKKEAPKPKV EEKKEPAVEK PKESKVEAKK
901 EEAEDKKKVP TPEKEAPAKV EVKEDAKPKE KTEVAKKEPD DAKAKEPSKP
951 AEKKEAAPEK KDTKEEKAKK PEEKPKTEAK AKEDDKTLSK EPSPKPKAEKA
1001 EKSSSTDQKD SKPPEKATED KAAKGK
HITS AT: 700-731, 742-759

REFERENCE 1: 135:176460

L4 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 329020-48-6 REGISTRY
CN L-Valinamide, L-alanyl-L-lysyl-O-phosphono-L-seryl-L-prolyl-L-valyl-L-lysyl-L-
lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-O-
phosphono-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-
lysyl-O-phosphono-L-seryl-L-prolyl- (9CI) (CA INDEX NAME)
SQL 19

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

REFERENCE 1: 134:204745

L4 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 329020-47-5 REGISTRY
CN L-Proline, L-alanyl-L-lysyl-O-phosphono-L-seryl-L-prolyl-L-valyl-L-
lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-O-
phosphono-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-
lysyl-O-phosphono-L-seryl- (9CI) (CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 18 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 329020-46-4 REGISTRY
CN L-Proline, L-alanyl-L-lysyl-L-seryl-L-prolyl-L-valyl-L-lysyl-L-
 α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-O-phosphono-L-
seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-lysyl-O-
phosphono-L-seryl- (9CI) (CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 19 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 329020-45-3 REGISTRY

Searcher : Shears 571-272-2528

09/847586

CN L-Proline, L-alanyl-L-lysyl-O-phosphono-L-seryl-L-prolyl-L-valyl-L-lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-lysyl-O-phosphono-L-seryl- (9CI) (CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 20 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 329020-44-2 REGISTRY
CN L-Proline, L-alanyl-L-lysyl-O-phosphono-L-seryl-L-prolyl-L-valyl-L-lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-O-phosphono-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-lysyl-L-seryl- (9CI) (CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 21 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 329020-43-1 REGISTRY
CN L-Proline, L-alanyl-L-lysyl-L-seryl-L-prolyl-L-valyl-L-lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-lysyl-O-phosphono-L-seryl- (9CI) (CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 22 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 329020-42-0 REGISTRY
CN L-Proline, L-alanyl-L-lysyl-L-seryl-L-prolyl-L-valyl-L-lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-O-phosphono-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-lysyl-L-seryl- (9CI) (CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

Searcher : Shears 571-272-2528

09/847586

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **329020-41-9** REGISTRY
CN L-Proline, L-alanyl-L-lysyl-O-phosphono-L-seryl-L-prolyl-L-valyl-L-lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-lysyl-L-seryl- (9CI)
(CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **329019-83-2** REGISTRY
CN L-Proline, L-alanyl-L-lysyl-L-seryl-L-prolyl-L-valyl-L-lysyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-lysyl-L-seryl-L-prolyl-L- α -glutamyl-L-lysyl-L-alanyl-L-lysyl-L-seryl- (9CI)
(CA INDEX NAME)
SQL 18

SEQ 1 AKSPVKEEAK SPEKAKSP
=====

HITS AT: 1-18

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 134:204745

L4 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **222963-40-8** REGISTRY
CN Protein (human brain gene KIAA0845 C-terminal fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN GenBank BAA74868
CN GenBank BAA74868 (Translated from: GenBank AB020652)
CI MAN
SQL 1034

SEQ 1 NPISTAQAMM SFGGADALLG APFAPLHGGG SLHYALARKG GAGGTRSAAG
51 SSSGFHSWTR TSVSSVSASP SRFRGAGAAS STDSLDTLSN GPEGCMAVA
101 TSRSEKEQLQ ALNDRFAFYI DVKRQLEAHN RSLEGEAAAL RQQQAGRSAM
151 GELYEREVRE MRGAVLRLGA ARGQLRLEQE HLLEDIAHVR QRLDDEARQR
201 EEAEEAARAL ARFAQEAEAA RVDLQKKAQA LQEECGYLRR HHQEEVGELL
251 GQIQGSGAAQ AQMQAETRDA LKCDVTSALR EIRAQLEGHA VQSTLOSEEW
301 FRVRLDRLSE AAKVNTDAMR SAQEEITEYR RQLQARTTEL EALKSTKDSL
351 ERQRSELEDR HQADIASYQE AIQQLDAELR NTKWEMAAQL REYQDLLNVK

09/847586

401 MLDIEIAAY RKLLEGEECR IGFGPIPFSL PEGLPKIPSV STHIKVKSEE
451 KIKVVEKSEK ETVIVEEQTE ETQVTEEVTE EEEKEAKEEE GKEEEGGEEE
501 EAEGGEEETK SPPAEEAASP EKEAKSPVKE EAKSPAEEKS PEKEEAKSPA
551 EVKSPEAKS PAKEEAKSPP EAKSPEKEA KSPAEVKSPE KAKSPAEEA
601 KSPAEAKSPE KAKSPVKEEA KSPAEAKSPV KEEAKSPAEV KSPEAKSPT
651 KEEAKSPEKA KSPEAKSPE KEEAKSPEKA KSPVKAEEAKS PEAKSPVKA
701 EAKSPEAKS PVKEEAKSPE KAKSPVKEEA KSPAEAKSPE KEEAKTPEKA
===== =
751 KSPVKEEAKS PEAKSPEKA KTLDVKSPEA KTPAKEEARS PADKFPEAK
===== =
801 SPVKEEVKSP EKAKSPLKD AKAPEKEIPK KEEVKSPVKE EEKQEVVK
851 EPPKKAEEEK APATPKTEEK KDSKKEEAPK KEAPKPKVVE KKEPAVEPK
901 ESKVEAKKEE AEDKKKVPTP EKEAPAKVEV KEDAKPKETK EVAKKEPDDA
951 KAKEPSKPAE KKEAAPEKKD TKEEKAKKPE EKPTEAKAK EDDTLSKEP
1001 SKPKAEKAEC SSSTDQKDSK PPEKATEDKA AKGK

HITS AT: 708-739, 750-767

REFERENCE 1: 130:292252

L4 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 147388-28-1 REGISTRY
CN Phosphoprotein NF-H (rabbit isoform 1 C-terminal fragment) (9CI)
(CA INDEX NAME)
CI MAN
SQL 606

SEQ 1 EKETVIVEEQ TEEIQVTEEV TEEEKEAKE EGGEEEEAK SPTEGGAASP
51 EEEAKSPAEEA KSPVKEEAKS PAEAKSPAEEA KSPAEAKSPE KAKSPVKEEA
===== =
101 KSPEAKSPV KEEAKSPAEEA KSPEAKSPA EAKSPEAKS PVKEEAKSPE
===== =
151 KAKSPAEEAKS PEAKSPAEEA KSPEAKSPV KEEAKSPEKA KSPVKEEAKS
===== =
201 PAEAKSPEKA KSPVKEEAKS PEAKSPAEEA KSPVKEEAKS PEAKSPEKE
===== =
251 EAKSPAEEAKS PEAKSPEKA KSPVEVKSPA EAKSPEAKS PVKEEAKSPE
===== =
301 KAKSPVKEEA KSPEAKSPV KEEAKSPEKA KSPVKEEAKS PEAKSPVKE
===== =
351 EAKSPEAKS PVKEEAKSPE KAKSPEAKS PVKEEAKSPE KAKSPVKEEA
===== =
401 KSPEAKSPV KEEAKSPEKE TPKEEVVK EPPKKVEETA PAPPKVEKDS
===== =
451 KKDEAPKKEA PKPAVEKPKE STAEAKKDEA EDKKKAAPAK MEGKEEAKPK
501 EKTEVAKKEP EDAKAKEPSK PTEKEPEKPK KEETPAAPVK KEAKEEARKP
551 EEPKTEAKA KEDDKALSKE PSKPKTEKAE KSSSTDQKDS RPPEKATEDK
601 AAKGEK

HITS AT: 92-109, 138-155, 176-193, 210-227, 230-247, 288-375,
378-409

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 118:206731

L4 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 119213-37-5 REGISTRY

Searcher : Shears 571-272-2528

09/847586

CN Phosphoprotein NF-H (human clone HW10/HW12 subunit protein moiety reduced) (9CI) (CA INDEX NAME)
CI MAN
SQL 1054

SEQ 1 MMSFGGADAL LGAPFAPLHG GGSLHYALAR KGGAGGTRSA AGSSSGFHSW
51 TRTSVSSVSA SPSRFRGAGA ASSTDSDLTL SNGPEGCMVA VATSRSEKEQ
101 LQALNDRFAG YIDKVRQLEA HNRSLEGEAA ALRQQQAGRS AMGELYEREV
151 REMRGAVLRL GAARGQLRLE QEHLLEDIAH VRQRLDDEAR QREEAEAAAR
201 ALARFAQEAE AARVDLQKKA QALQECCGYL RRHHQEEVGGE LLGQIQGSGA
251 AQAQMQAETR DALKCDVTSA LREIRAQLEG HAVQSTLQSE EWFRVRLDRL
301 SEA AKVNTDA MRS AQEEITE YRRQLQARTT ELEALKSTKD SLERQRSELE
351 DRHQADIASY QEAIQQLDAE LRNTKWEMAA QLREYQDLLN VKM ALDIEIA
401 AYRKLLGEEE CRIGFGPIPF SLPEGLPKIP SVSTHIKVKS EEKIKVVEKS
451 EKETVIVEEQ TEETQVTEEV TEEEKEAKE EEGKEEEGGE EEEAE GGE
501 TKSPPAEEAA SPEKEAKSPV KEEAKSPA EA KSPEKEAKS PAEVKSPEKA
551 KSPAKEEAKS PPEAKSPEKE EAKSPA EVKSPEAKS PEKA KSPEAKSPE
601 PEKEEAKSPA EVKSPEAKS PAKEEAKSPA EAKSPEAKS PVKEEAKSPA
651 EAKSPVKEEA KSPAEVKSPE KAKSP TKEEA KSPEAKSPE KEEAKSPEKA
701 KSPVKA EAKS PEAKSPVKA EAKSPEAKS PVKEEAKSPE KAKSPVKEEA
===== =====
751 KSPEAKSPV KEEAKTPEKA KSPVKEEAKS PEAKSPEKA KTLDVKSPEA
===== =====
801 KTPAKKEEARS PADKFPEKAK SPVKEEVKSP EKAKSPLKAD AKAPEKEIPK
851 KEEVKSPVKE EEPKQEVVKV EPPKKAEEEK APATPKTEEK KDSKKEEAPK
901 KEAPKPKVEE KKEPAVEKPK ESKVEAKKEE AEDKKKVPTP EKEAPAKVEV
951 KEDAKPKKEKT EVAKKEPDDA KAKEPSKPAE KKEAAPEKKD TKEEKAKKPE
1001 EKP KTEAKAK EDDKTLSKEP SKPKA EAKS SSSTDQKDSK PPEKATEDKA
1051 AKGK

HITS AT: 728-759, 770-787

REFERENCE 1: 110:89623

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FILE 'HOME' ENTERED AT 11:49:53 ON 26 MAY 2004